



FIG. 1A

CDR1
EVQLLEQSGA EVRKPSSVK VSKASGGTF SGHVTWVRQ APQGGLWVG ESPIEGSAN YAONYAOKER DRVSIADFS TSTSFIELSN LRSDDTAVY CARDPRKCS AGRCTGGEQ OWGQGTLVTV SS

CDR2

CDR3

CDR1
EVQLLEQSGA EVKPKGSSVK VSCQVFGDTF SRYTIQWLRL APQGPEWVG NIEPVNTPN YAOKEGRSL ITADDSTSTA YMEISSIRSE DTA VYFCARV VFNARHITM GYEDWGGG TLTVTSS

CDR2

CDR3

FIG. 1B

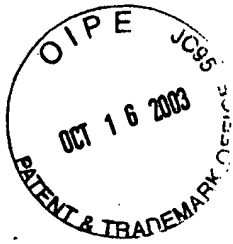


FIG. 1C

EVQILEQSGA EVKPGSSVK VSCKASGGTF SGHVSWVRQ APGQGLEWMG GSISECTSNSAQKEGRVS ITADESASTA YMEISSIRSE DTATYYCAKD PPRECSGGNCYEGFEQDWGQ GTLVTVSS

CDR1 CDR2 CDR3

EVQILESGGG WQPGISRL SCAASGFTK TYGMHWVRQA PGKGLEWVAG ISEDGSNOY ADSVKGRFV SRDNSRDTVF LQMSLRLED TAVYYCATEG SPEGSIKGRY YLENWQGQTL VTVSS

CDR1 CDR2 CDR3

FIG. 1D



FIGURE 1E

EVQLLESGGG VVQPGRLRL SCAASGFTFS AYGMHWVRQA ^{CDR 1} PGKGLEWVAG IWEDGSNQYYSDSVKGRFTV - ^{CDR 2}

SRDNSRNTLF LQMNSLRPED TAVYYCATEV LFSGIKGRYY ^{CDR 3} LENWGQGTLVTSS

FIGURE 1F

EVQLLESGPG LVKPSGTLSL TCTVSGGSIR SSHWWWSWVRQ ^{CDR 1} PPGKGLEWIG EVFEESGSIITYNPSLNDRVFM - ^{CDR 2}

SVDKSKDQVS LRLSSVTAAD TAVYYCARSP IKMNQGRMML ^{CDR 3} DAFDIWGQGTLVIVSS

FIGURE 1G

EVQLLESGSE VKKPGSSVKV SCRASGGSFR SYNFNHWVRQA ^{CDR 1} PGQGLEWMGG IPMEGTANYAQKFGQGRVTI - ^{CDR 2}

TADESTATGY MELSSLRSED TAVYYCAMPY PKHCSRGS ^{CDR 3} SCW GWFDPWGQGTLVTSS



FIG. 2A

CDR1
AELTQSPGTL SLSPGERATL SCRASOSVSS NYLAWYQQRP GOAPRLLIYG ASSRATGIPD RFSGSGSGTD FTLTISRLEP EDFAVYYCOL YGNSRWTFGQ GTKVEIK
CDR2
CDR3

CDR1
AELTQSPATL SLSPGERATL SCRASOSVNK YLAWYQQKPG QAPRLLIYDA SNRATGIPAR FSGSGSGTDF TLTISNLEPE DFAVYYCOOR SDWVTFGGGT KVEIK
CDR2
CDR3

FIG. 2B



FIG. 2C

CDR1
AELTQSPGTL SLSPGERATL SCGASOSYRS NYLAWYQOKP GOAPRLIYG VSSRATGIPD RFGSGSGTD FTLTISRLEP EDFAVYVCQQ YGSSERTFGQ GTKLEIK
CDR2
CDR3

CDR1
AELTQSPATL SVSPGERASL SCRASOSYGN NLAWYQOKPG QAPRLIYG NTRATGTPDR FSGSGSGTEF TLTISSLOSE DFAVYFCOHY STWPLTFGGG TKVEFK
CDR2
CDR3

FIG. 2D

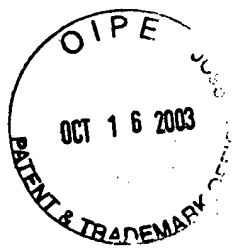


FIGURE 2E

CDR 1 CDR 2
AELTQSPGTL SLVGERATL SCRASQNIYS GYLGWYQQKP GQPPRLLYG ASNRATGIPD
- RFSGSGSGTD FTLTISRLES EDFAVYCCQ YGSPPYTFGQ GTKVEIK CDR 3

FIGURE 2F

CDR 1 CDR 2
AELTQSPSSL SAFVGDRVTI TCRASQSISR NLNWYQQKPG TAPKVLIVAA SSLQSGVPSR
- FSGSGSGTDF TLTITSLQPE DFATYCCQS YTIPTITFGQG TKVEIK CDR 3

FIGURE 2G

CDR 1 CDR 2
AELTQSPGTL SLSPGERATL SCRASQSLSS KYLAWYQQKP GQAPRLFYD ASSRAIGIPD
- RFSGSGSGTD FTLTISRLEP EDFAVYCCQ YGITPTITFGQG TKVEIK CDR 3

FIG. 3A

GAGCTCAGC AGTCTCCAGG CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCTCTCC TGCAGGGCCA
GTCAGAGTGT TAGCAGCAAT TACTTAGCCT GGTACCAGCA GAGACCTGGC CAGGCTCCCA GGCTCCTCAT
CTATGGTGCA TCCAGCAGGG CCACTGGCAT CCCAGACAGG TTCAGTGCCA GTGGTCTGG GACAGACTTC
ACTCTCACCA TCAGCAGACT GGAGCCTGAA GATTTTGCAG TGTATTACTG TCAGCTTTAT GGTAACTCAC
GTTGGACGTT CGGCCAAGGG ACCAAGGTGG AGATCAAA

FIG. 3B

GAGTCACTC AGTCTCCAGC CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCTCTCC TGCAGGGCCA
GTCAGAGTGT TAACAAGTAC TTAGCCTGGT ACCAACAGAA ACCTGGCCAG GCTCCCAGGC TCCTCATCTA
TGATGCATCC AACAGGGCCA CTGGCATCCC AGCCAGGTTT AGTGGCAGTG GGTCTGGGAC AGACTTCACT
CTCACCATCA GCAACCTAGA GCCTGAAGAT TTTGCAAGTT ATTACTGTCA GCAGCGTAGC GACTGGGTCA
CTTTCGGCGG AGGGACCAAG GTGGAGATCA AA





FIG. 3C

GAGCTCAGC AGTCTCCAGG CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCTCTCTCC TCGGGGGCCA
GTCAGAGTGT TAGGAGCAAC TACTTAGCCT GGTACCAGCA AAAACCTGGC CAGGCTCCCA GGCTCCTCAT
CTATGGTGTA TCCAGCAGGG CCACTGGCAT CCCAGACAGG TTCAGTGGA GTGGGTCTGG GACAGACTTC
ACTCTACCA TCAGCAGACT GGAGCCTGAA GATTTGCGAG TGTATTACTG TCAGCAGTAT GGTAGCTCAC
CTCGGACTTT TGGCCAGGG ACCAAGTTGG AGATCAAA

FIG. 3D

GAGCTCAGC AGTCTCCAGC CACCCTGTCT GTGTCTCCAG GGGAAAGAGC CTCCCTCTCTCC TGCAGGGCCA
GTCAGAGTGT CGGTAACAAT TTAGCTTGGT ATCAGCAGAA ACCTGGCCAG GCTCCCAGGC TCCTCATTTA
TGGTGGAAAC ACCAGAGCCA CTGGTACCCC AGACAGGTTT AGTGCCAGTG GGTCTGGGAC AGAATTCAC
CTCACCATCA GCAGCCTGCA GTCTGAGGAC TTTCAGTTT ATTTCTGTCA AACTATAGT ACCTGGCCGC
TCACTTTCGG CGGGGGGACC AAGGTCGAGT TCAAG

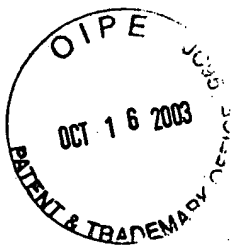


FIGURE 3E

GAGGTGCAGC TGCTCGAGTC TGGGGGAGGC GTGGTCCAGC CTGGGAGGTC CCTGAGACTC TCCTGTGCAG
CGTCTGGATT CACCTTCAGT GCTTATGGCA TGCACTGGGT CGGCCAGGCT CCAGGCAAGG GGCTGGAGTG
GGTGGCAGGT ATATGGTTTG ATGGAAGTAA TCAATACTAT TCAGACTCCG TGAAGGGCCG ATTCACCGTC
TCCAGAGACA ATTCAGGAA CACGCTGTT CTGCAAAATGA ACAGCCTGAG ACCCGAGGAC ACGGCTGTCT
ATTACTGTGC GACAGAGGTA CTTTTTGGAT CGATTAAAGGG GCGTTACTAC CTTGAAAACT GGGGCCAGGG
AACCTGGTC ACCGTCCTCT CA

FIGURE 3F

GCGGAGCTCA CCCAGTCTCC ATCGTCCCTG TCTGCATTG TNGGAGACAG AGTCACCATC ACTTGCCGGG
CAAGTCAGAG TATTAGCAGG AACTTAAAT GGTATCAGCA GAAACCAGGG ACAGCCCCTA AGTCCCTGAT
CTATGCTGCA TCCAGTTTGC AAAGTGGGT CCATTCGAGG TTCAGTGCCA GTGGATCTGG GACAGATTTC
ACTCTACCA TCACCAGTCT GCAACCTGAA GATTTTGCAA CTTACTATTG TCAACAGAGT TACACAACCC
CTCGGAGTT CGGCCAAGGG ACCAAGGTGG AAGTCAAA

FIGURE 3G

GCGGAGCTCA CGCAGTCTCC AGGCACCCTG TCTTTGTCTC CAGGGGAAAG AGCCACCCTC TCCTGCAGGG
CCAGTCAGAG TCTTAGCAGC AAATACTTAG CNTGGTACCA ACAGAAACCT GGCCAGGCTC CCAGGCTCTT
CATTATGAT GCATCCAGCA GGGCCACTGG CATCCAGAC AGGTTCACTG GCAGTGGGTC TGGGACAGAC
TTCAGTCTCA GCATCAGCAG ATTGAGCCT GAAGATTTTG CAGTGTATTA CTGTCAGCAG TATGGAACAC
CTCGCACCTT CGGCCAGGG ACCAAGGTGG AAATCAAA

FIG. 4A

CTCGAGCAGT CTGGGGCTGA GTGAGGAAG CCTGGGTCCT CGGTGAAGGT CTCCTGCAAG GCTTCTGGAG
GCACCTTCAG CGGCCATGTT ATCACCTGGG TCGACAGGC CCTGGACAA GGACTTGAGT GGATGGGAGA
GAGCATCCCT ATCTTTGGTT CCGCAAACTA CGCTCAAAAC TACGCTCAGA AATTCGGGA CAGAGTCTCG
ATTATCGCGG ACGAATCCAC GAGCACGTCG TTCAATTGAGC TGAGCAACCT GAGATCTGAC GACACGGCCG
TCTACTACTG TCGGAGAGAC CCTCCAAGAT ATTGCAGTGC TGGTAGATGC TACCCGGGAT TCTTCCAGCA
GTGGGGCCAG GGCACCCCTCG TCACCGTCTC CTCA

FIG. 4B

CTCGAGCAGT CTGGGGCTGA GTGAAGAAG CCTGGGTCCT CGGTGAAGGT CTCCTGTCAG GTTTTGGAG
ACACCTTCAG CAGATACACT ATTCAGTGGT TCGACAGGC CCTGGACAA GGCCTGAGT GGATGGGAAA
TATCATCCCT GTCTATAATA CACCAACTA CGCGCAGAAG TTTCAGGGCA GACTCTCGAT AACCGCCGAC
GATTCCACGA GCACAGCCTA CATGGAACCTG AGTAGCCTCA GATCTGAGGA CACGGCCGTC TATTTCTGTG
CGAGAGTCGT AATACCAAT GCAATCCGC ACACGATGGG ATATTACTTT GACTACTGGG GCCAGGGAAC
CCTGGTCACC GTCTCCTCA



FIG. 4C

CTCGAGCAGT CTGGGGCTGA GGTGAAGAAG CCTGGGTCCT CAGTGAAGT CTCCTGCAAG GCTTCTGGAG
GCACCTTCAG CGGCCATGTT ATCAGCTGGG TCGACAGGC CCTGGACAA GGGCTTGAGT GGATGGGGG
GAGTATCTCT TTCTTTGGCA CATCAAACTC CGCACAGAAG TTCCAGGGCA GAGTCTCGAT TACCGCGGAC
GAATCCGGCA GCACAGCCTA CATGGAGCTG AGTAGCCTGA GATCGGAGGA CACGGCCATC TATTACTGTG
CGAAAGACCC TCCAAGATTT TGAGTGGTG GTAACTGCTA CCCGGGGTTC TTCCAGCAGT GGGGCCAGGG
CACCTGGTC ACCGTCTCCT CA

FIG. 4D

CTCGAGTCGG GGGGAGGCGT GGTCCAGCCT GGGAGGTCCC TGAGACTCTC CTGTGCAGCG TCTGGATTCA
CCTTCAAGAC GTATGGCATG CACTGGGTCC GCCAGGCTCC AGGCAAGGG CTGGAGTGGG TGGCAGGTAT
TTCGTTTGAT GGAAGTAACC AATATTACGC AGACTCCGTG AAGGGCCGAT TCATCGTCTC CAGAGACAAT
TCCAGGGACA CGGTGTTTCT GCAGATGAGC AGCCTGAGAC TCGAGGACAC GGCTGTCTAT TACTGTGCGA
CAGAGGGTTC TCCTTTTGGC TCGATTAAAG GCGGTTACTA CCTTGAAAT TGGGGCCAGG GAACCCCTGT
CACCGTCTCC TCA



FIGURE 4E

GAGGTGCAGC TGCTCGAGTC TGGGGGAGGC GTGGTCCAGC CTGGGAGGTC CCTGAGACTC TCCTGTGCAG
CGTCTGGATT CACCTTCAGT GCTTATGGCA TGCATGGGT CCGCCAGGCT CCAGGCCAAGG GGCTGGAGTG
GGTGGCAGGT ATATGGTTTG ATGGAAGTAA TCAATACTAT TCAGACTCCG TGAAGGGCCG ATTACCCGTC
TCCAGAGACA ATCCAGGAA CACGCTGTTT CTGCAATGA ACAGCCTGAG ACCCGAGGAC ACGGCTGTCT
ATTACTGTGC GACAGAGGTA CTTTTTGGAT CGATTAGGG GCGTTACTAC CTTGAAAACT GGGGCCAGGG
AACCCCTGGTC ACCGTCCTCT CA

FIGURE 4F

GAGGTGCAGC TGCTCGAGTC GGGCCAGGA CTGGTGAAGC CTTCGGGGAC CCTGTCCCTC ACCTGCACCTG
TCTCTGGTGG CTCATCAGG AGCAGTCACT GGTGGAGTTG GGTCGCCAG CCCCAGGGA AGGCACTGGA
GTGGATTGGA GAAGTCTTTT TTAGTGAAG CACCATCTAC AACCCATCCC TCAACGATCG AGTCTTCATG
TCTGTAGACA AGTCCAAGGA CCAGGTCCTC CTGAGGCTGA GCTCTGTGAC CGCCGCGGAC ACGGCCGTGT
ATTACTGTGC GAGATCCCC ATAAAATGA ATCAGGGAAG AATGATGTTG GATGCCTTTG ATATCTGGGG
CCAGGGGACA CTCGTCATCG TCTCTTCC

FIGURE 4G

GAGGTGCAGC TGCTCGAGTC TGGGTCTGAG GTGAAGAAGC CTGGGTCTTC GGTGAAGTC TCCTGCAGGG
CCTCTGGAGG CAGCTTCAGA AGCTACAATT TCAATTGGGT GCGACAGGCC CCTGGACAAG GTCTTGAGTG
GATGGGAGGC ATCATCCCTA TGTTCCGGAAC AGCAAACTAC GCACAGAAGT TTCAGGGCAG AGTCACAAAT
ACCGCGGACG AATCCACGGC CACAGGCTAC ATGGAGTTGA GCAGTCTGAG ATCTGAAGAC ACGGCCGTTT
ATTACTGTGC GATGCCCTAT CCAAAACATT GCAGTCGTGG AAGTTGCTGG GGCTGGTTGG ACCCCTGGGG
CCAGGGAAC CTGGTCACCG TGCTTCA